

South Carolina Governor's School for Science and Mathematics

401 Railroad Avenue, Hartsville, SC 29550

Website: www.scgssm.org

Grades 11-12

Enrollment 129 Students

School President Dr. Murray W. Brockman

843-383-3900

Board Chair Dr. Leroy Davis

803-780-1349

THE STATE OF SOUTH CAROLINA ANNUAL SCHOOL 2012 REPORT CARD

RATINGS OVER 5-YEAR PERIOD

Year	Absolute Rating	Growth Rating
2012	Excellent	Excellent
2011	Excellent	Excellent
2010	Excellent	Excellent
2009	Excellent	Excellent
2008	Excellent	Excellent

ADEQUATE YEARLY PROGRESS

YES

Definition: As required by the United States Department of Education, Adequate Yearly Progress specifies that the statewide target is met for "All Students" and for the following subgroups: Racial/Ethnic, Subsidized Meals, Disability, and Limited English Proficiency in the areas of English/Language Arts and Mathematics, as well as meeting the statewide target for "All Students" for attendance or graduation rate.

DEFINITIONS OF SCHOOL RATING TERMS

- Excellent – School performance substantially exceeds the standards for progress toward the 2020 SC Performance Vision
- Good – School performance exceeds the standards for progress toward the 2020 SC Performance Vision
- Average – School performance meets the standards for progress toward the 2020 SC Performance Vision
- Below Average – School is in jeopardy of not meeting the standards for progress toward the 2020 SC Performance Vision
- At-Risk – School performance fails to meet the standards for progress toward the 2020 SC Performance Vision

SOUTH CAROLINA PERFORMANCE VISION

By 2020 all students will graduate with the knowledge and skills necessary to compete successfully in the global economy, participate in a democratic society and contribute positively as members of families and communities.

<http://ed.sc.gov>

<http://www.eoc.sc.gov>

PERFORMANCE CRITERIA	DATA
Advanced Placement (AP) Pass Rate	92%
Graduates' College Freshman GPA (In-state Colleges)	3.72
SAT Average (High Verbal & Math) / (High Verbal, Math, & Writing)	1366 / 2042

AP TEST SCORE DISTRIBUTION

Score	5		4		3		2		1		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Students	57	29%	76	39%	50	25%	7	4%	7	4%	197	100%

COLLEGE FRESHMAN GPA

GPA	3.5-4.0		3.3-3.5		3.1-3.3		2.9-3.1		<2.9		Total	
	#	%	#	%	#	%	#	%	#	%	#	%
Students	22	73%	1	3%	4	14%	1	3%	2	7%	30	100%

SAT SCORES

	Middle 50%		Range	
SAT Critical Reading	640	700	540	800
SAT Math	660	720	520	800

A Special Note on Performance

Every student at Governor's School completes a research course requirement that is a distinctive learning and maturing experience. Senior research begins with at least six full weeks of research in the summer following the junior year. Most of the students conduct their research at university or industrial research facilities under the mentorship of professional scientists or engineers. Currently, a special exchange program supports several research positions in Germany and South Korea. Students work with their research mentors and Governor's School advisors during the senior year to compile and analyze their research findings, prepare formal research papers, and present their work at a school-sponsored colloquium and at the SC Junior Academy of Science annual meeting.

END OF COURSE TESTS

N/A

Abbreviations for Missing Data

N/A–Not Applicable	N/AV–Not Available	N/C–Not Collected	N/R–Not Reported	I/S–Insufficient Sample
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SCHOOL PROFILE

	Our School	Change from Last Year
Students (n=129)		
Retention rate	0	Same
Attendance rate	99.2%	Up from 97.1%
With disabilities other than speech	0	Down from 2
Older than usual for grade	0	Same
Out-of-of school suspensions or expulsions for violent &/or criminal offenses	N/A	Same
Annual dropout rate	N/A	Same
Students in residence	129	Up from 121
National Achievement Semifinalists/Finalists	50% / 50%	Up from 25%
Seniors Completing Science Research Project	100%	Same
Community Service-hr./student	83	Same
Graduating attending college	100%	Same
Seniors eligible for LIFE Scholarship	100%	Same
Total scholarship offered	\$11,878,000	Up from \$9,300,000
Number of seniors	61	Up from 50
National Merit Semifinalists/Finalists	16% / 16%	Down from 32% / 32%
Teachers (n=14)		
Teachers with advanced degrees	100%	Same
Percent of classes not taught by highly qualified teachers	N/R	Same
Teachers with emergency or provisional certificates	N/A	Same
Teachers returning from previous year	100%	Same
Teacher attendance rate	99.7%	Up from 99.1%
Average salary	\$63,062	Same
Professional development days per teacher	6	same
Teachers with Doctorates	79%	Same
Years teaching experience-middle 50%	20 to 38	Up from 19 to 37
School		
President's years at the school	11	Up from 10
Student-teacher ratio in core subjects	11 to 1	Same
Prime instructional time	98.9%	Up from 98.3%
Percent of expenditures for instruction	N/R	Same
Dollars spent per pupil	\$13,122 ^a	Same
Percent of expenditures for teacher salaries	63.0%	Same
Opportunities in the arts	N/A	Same
Parents attending conferences	89%	Up from 84%
SACS accreditation	N/A	Same
University/Industrial Partners in Research Mentor Program	12	Up from 10
Mentors in Research Program	81	Up from 78
Student clubs and organizations	31	Down from 33
Students active in clubs/societies	97.6%	Up from 95%
Varsity sports teams	9	Same
Students participating in varsity sports	81%	Down from 82%
Students returning to home high school	2.3%	Down from 8.3%
Outreach to other schools		
Students in Summer Science Program (SSP)	346	Up from 266
University Partners in SSP	11	Up from 9
6 week summer research positions for other HS students	3	Same
Other S.C. Educators in Outreach Training/Devel. Programs	26	Down from 179

^a Costs for academic program including summer research, but not residential life (base state support)

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REPORT OF PRESIDENT

From its founding in 1988 by a visionary Act of the General Assembly, GSSM has served as a portal through which talented students from throughout South Carolina have embarked on a lifetime of exploration, discovery and growth. The mission of this unique school emphasizes developing the scientifically astute and ethically aware leaders needed for our expanding knowledge-based economy. Nationally ranked by Newsweek and by the College Board, GSSM is now concentrating on national prominence.

At our founding, GSSM shared facilities with Coker College, and private donors provided all funds for construction. As our successes mounted and our reputation grew, the Board of Trustees approached the General Assembly with plans for a stand-alone campus to house more students. The General Assembly concurred, and our new state-of-the-art campus opened in January 2010. We began to expand this year, hiring new faculty in all disciplines and substantially increasing the number of students. Our new Blue Cross Blue Shield Economics and Finance Institute has already opened, broadening and sharpening our student's ability to think in economic and business terms about opportunities in high technology, and we are embarking on a ground-breaking state-wide initiative in Engineering.

GSSM's curriculum is second to none in the state in its depth and challenge, most notably in science and math, but also in the humanities – this year we expanded instruction in Chinese language. Our students continue to perform at the highest levels in both our Residential and Outreach programs, reflecting the individual talents of these remarkable young people. The significant achievements of the students in residence in Hartsville (2042 average SAT, highest in the state; \$11.9 million in scholarship offers to 61 seniors, including 16% who are National Merit or Achievement Scholars) are crowned by their completion of a mentored individual research project at a research university or industrial laboratory in South Carolina, or now, internationally. Thanks to grants from Roche and others, selected GSSM students carry out research at the German Cancer Research Center in Heidelberg, and German students from the Johanna Wittum School come here and perform research at USC-Columbia. Students from the Gyeonggi Science High School in South Korea also carried our research at USC, while GSSM students traveled to the Korean Advanced Institute for Science and Technology for research. Typically, several students publish their work in peer-reviewed scholarly journals each year.

Appropriate emphasis on extracurricular activities for all students continues to build strong school spirit, with 81% of students participating in varsity athletics. The volleyball team went to the state semi-finals and the boys soccer team made it to the state championship game. Boys and girls cross country and boys and girls tennis teams participated in the state championships, as did individual members of the swimming team. Overall, our athletic program ranks in the top 40 in the state for all schools. In addition, students lead and direct more than 31 clubs and societies, involving 97% of students. Students serve their community and school by working 83 hours each year, supplementing instruction on ethics and character development. Perhaps best of all, students report great satisfaction from forming "friendships for life."

GSSM's Outreach shares exemplary programs statewide to improve science achievement. A continuing grant from Google enabled us to expand a computer-based entrepreneurship camp for middle school students in Berkeley County, and we moved a similar concept to Greenville. Our GO SciTech Program encouraged 8th, 9th and 10th graders to explore "real" science, math and computer. We completed a program funded by the US Department of Education enabling us to actively seek out and encourage promising seventh graders who wish to pursue math and science. Sonoco has funded a remarkable program with Darlington County Schools, GSSM, Coker College and Yale University to enhance educational excellence at all levels in Hartsville.

We are eagerly planning to enhance this remarkable record. Our new faculty and staff members are as amazing as our veterans, and we will continue to grow this year and next, more than doubling the students served in both the Outreach and Residential programs. We will pursue opportunities for our students to carry out scientific research globally, and support that effort with enhanced instruction in foreign languages. GSSM will continue to be a flagship for education in South Carolina and, increasingly, the nation.

Murray W. Brockman, President

EVALUATIONS BY STUDENTS, TEACHERS, AND PARENTS

	Students	Teachers	Parents
Number of surveys returned	66	14	43
Satisfied with learning environment	90.9%	92.9%	100.0%
Satisfied with social and physical environment	92.4%	100.0%	100.0%
Satisfied with school-home relations	84.9%	100.0%	97.6%

*11th grade students and parents were surveyed.